

TRANSMITTAL

TO: Ms. Joan Fleck
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

DATE: April 13, 2006
PROJECT NUMBER: 261913
SUBJECT: Redwood Oil Facility 114,
1855 Guerneville Road, Santa Rosa, California.

FROM: Mr. Glenn L. Matteucci
TITLE: Project Manager

WE ARE SENDING YOU:

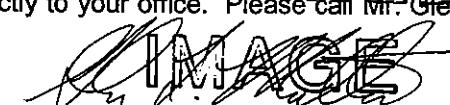
COPIES	DATED	DESCRIPTION
1	April 13, 2006	Groundwater Monitoring and Remediation Status Report, First Quarter 2006

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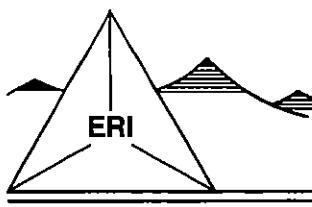
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REMARKS:

At the request of Redwood Oil Company, Environmental Resolutions, Inc. (ERI) is forwarding one copy of the above-referenced report directly to your office. Please call Mr. Glenn L. Matteucci at (707) 766-2000 with any questions or comments.


Glenn L. Matteucci, Project Manager

cc: Mr. John Mahoney, Redwood Oil Company
ERI project file 261913



ENVIRONMENTAL RESOLUTIONS, INC.

April 13, 2006
ERI 261913.Q061

Mr. John Mahoney
50 Professional Center Drive, Suite 100
Rohnert Park, California 94928

SUBJECT Groundwater Monitoring and Remediation Status Report, First Quarter 2006
Redwood Oil Facility 114
1855 Guerneville Road, Santa Rosa, California
Wastewater Discharge Permit No. SR-GW5287.

INTRODUCTION

At the request of Redwood Oil Company (Redwood), Environmental Resolutions, Inc. (ERI) performed groundwater monitoring and sampling at the subject site for first quarter 2006. Relevant tables, plates, and attachments are included with this report. Currently, the site operates as a Chevron-branded service station.

GROUNDWATER MONITORING AND SAMPLING SUMMARY

Gauging and/or sampling date: 03/08/06 - 03/17/06

Wells gauged and sampled: MW1 through MW4, MW7 through MW11

Wells gauged only: V1 through V4

Water supply wells sampled only: 2050 and 2075 Marlow Road, 1815 Charnville Road

Laboratory: Kiff Analytical, LLC, Davis, California

Analyses performed: EPA Method 8015M TPHd
EPA Method 8260B TPHg, MTBE, BTEX, ETBE, TBA, DIPE, TAME,
1,2-DCA, FDR, ethanol, methanol

Waste Disposal: 385 gallons purge and decon water transferred to treatment system on 03/08/06

REMEDIATION SYSTEM SUMMARY

Groundwater Treatment - Domestic Wells

Redwood installed well head treatment systems on private domestic wells located at 2050 and 2075 Marlow Road and 1815 Guerneville Road, in Santa Rosa, California, during October 2005. Each well head treatment system consists of two 110-pound granulated activated carbon (GAC) vessels connected in series; an ultraviolet light source; system totalizer; and influent, intermediate, and effluent sampling ports.

ERI collects monthly water samples at influent, intermediate, and effluent sample ports to evaluate well head treatment system performance and whether dissolved-phase hydrocarbons are present in groundwater. Pursuant to direction from Redwood, intermediate and effluent water samples are submitted for analysis when dissolved-phase hydrocarbons are detected in influent samples, and are analyzed for those constituents detected in the influent samples.

Groundwater Extraction and Treatment System

The groundwater extraction and treatment (GET) system extracts groundwater from wells MW1 through MW3, MW7, and MW8 using submersible pneumatic pumps. Extracted groundwater is directed through GAC vessels prior to discharge to the storm sewer. When the GET system is operational, ERI collects monthly water samples at influent, intermediate, and effluent sample ports to ensure compliance with the groundwater discharge permit and proper performance of the GET system.

ERI began GET system operation and maintenance on October 1, 2004. However the system has not continuously operated since October 2004 because mass removal rates were low, and GET as currently configured is not a cost-effective technology to remove the dissolved-phase hydrocarbons and related compounds at current concentrations in groundwater beneath the site. The GET system is currently shut down.

Upon authorization from Redwood, ERI is planning to retrofit the system during second quarter 2006 to remediate residual and dissolved-phase fuel hydrocarbons in the shallow saturated zone and shallow groundwater respectively.

System start-up date:	August 2000
System discharge permits:	Wastewater Discharge Permit SR-GW5287
Reporting period:	8/24/05 – 03/08/06
System modifications during reporting period:	None
System status during reporting period:	Inactive excluding processing of quarterly monitoring and sampling purge water
Non-compliance events and exceptions:	None

System Performance:

Period	Volume of Groundwater Treated (gallons)	Mass of TPHg Removed (pounds)	Mass of MTBE Removed (pounds)
To Date:	3,184,358	31.83	1.02

SUMMARY OF SYSTEM OPERATION STATUS

The GET system was not operated within this reporting period. The GET system processed 385 gallons of water on March 8, 2006, without sampling under written approval from the City of Santa Rosa Utilities Department (Attachment C).

DOCUMENT DISTRIBUTION

ERI recommends forwarding copies of this report to:

Ms. Joan Fleck
 California Regional Water Quality Control Board
 North Coast Region
 5550 Skylane Boulevard, Suite A
 Santa Rosa, California 95403

Ms. Donna Seaman
 Subregional Water Management System
 Industrial Waste Section
 4300 Llano Road
 Santa Rosa, California 95407

LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for Redwood, and any reliance on this report by third parties shall be at such party's sole risk.

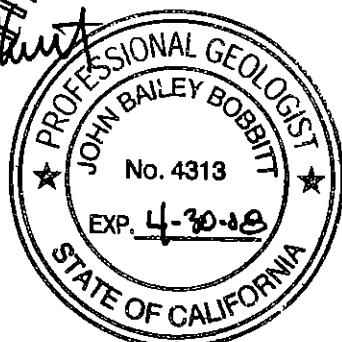
Please call Mr. Glenn L. Matteucci, ERI's project manager for this site, at (707) 766-2000 with any questions regarding this report.

Sincerely,

 Environmental Resolutions, Inc.

Karen E. Marrero
 Technical Writer

John B. Bobbitt
 P.G. 4313



Attachments: Table 1A: Cumulative Groundwater Monitoring and Sampling Data
Table 1B: Additional Cumulative Groundwater Monitoring and Sampling Data
Table 2: Cumulative Monitoring and Sampling Data for Private Water Well and Well Head Treatment System
Table 3: Operational and Performance Data for Groundwater Extraction and Treatment System

Plate 1: Site Vicinity Map
Plate 2: Select Analytical Results
Plate 3: Groundwater Elevation Map

Attachment A: Groundwater Sampling Protocol
Attachment B: Laboratory Analytical Reports and Chain-of-Custody Records
Attachment C: Electronic Correspondence - City of Santa Rosa Utilities Department

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
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Well ID	Sample Date	TOC (fmsl)	DTW (fbgs)	GW Elev. (fmsl)	TPHd (µg/L)	TPH Diesel-range (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW1	09/01/89	108.21	15.20	93.01	—	—	—	—	—	—	—	—
MW1	06/01/90	108.21	9.61	98.60	—	—	—	—	—	—	—	—
MW1	02/01/91	123.18	13.48	109.70	210	—	2,200	—	370	99	88	180
MW1	03/01/91	123.18	12.10	111.08	—	—	—	—	—	—	—	—
MW1	04/01/91	123.18	6.07	117.11	—	—	—	—	—	—	—	—
MW1	05/16/91	123.18	10.24	112.94	60	—	2,900	—	370	38	80	120
MW1	06/07/91	123.18	12.36	110.82	—	—	—	—	—	—	—	—
MW1	07/01/91	123.18	12.76	110.42	—	—	—	—	—	—	—	—
MW1	08/01/91	123.18	15.17	108.01	—	—	—	—	—	—	—	—
MW1	08/16/91	123.18	16.01	107.17	60	—	1,800	—	590	16	77	69
MW1	09/09/91	123.18	16.34	106.84	—	—	—	—	—	—	—	—
MW1	10/04/91	123.18	16.47	106.71	—	—	—	—	—	—	—	—
MW1	11/06/91	123.18	15.20	107.98	—	—	—	—	—	—	—	—
MW1	12/06/91	123.18	14.00	109.18	530	—	1000	—	460	23	51	66
MW1	01/06/92	123.18	12.24	110.94	—	—	—	—	—	—	—	—
MW1	02/19/92	123.18	7.80	115.38	—	—	—	—	—	—	—	—
MW1	03/30/92	123.82	6.74	117.08	470	—	2600	—	600	0.5	100	130
MW1	04/23/92	123.82	7.76	116.06	—	—	—	—	—	—	—	—
MW1	05/18/92	123.82	9.69	114.13	—	—	—	—	—	—	—	—
MW1	06/16/92	123.82	11.91	111.91	<50	—	6000	—	1100	110	150	300
MW1	07/24/92	123.82	14.90	108.92	—	—	—	—	—	—	—	—
MW1	08/18/92	123.82	14.94	108.88	—	—	—	—	—	—	—	—
MW1	09/24/92	123.82	15.59	108.23	1600	—	16000	—	2400	52	310	320
MW1	10/21/92	123.82	15.59	108.23	—	—	—	—	—	—	—	—
MW1	11/16/92	123.82	15.41	108.41	—	—	—	—	—	—	—	—
MW1	12/16/92	123.82	9.78	114.04	100	—	70	—	4.5	0.5	0.7	1.2
MW1	01/13/93	123.82	6.34	117.48	—	—	—	—	—	—	—	—
MW1	02/23/93	123.82	7.48	116.34	—	—	—	—	—	—	—	—
MW1	03/17/93	123.82	8.68	115.14	710	—	<50	—	0.5	0.5	0.5	0.5
MW1	04/16/93	123.82	7.78	116.04	—	—	—	—	—	—	—	—
MW1	05/14/93	123.82	8.48	115.34	—	—	—	—	—	—	—	—
MW1	09/30/93	123.82	15.45	108.37	330	—	2300	—	930	21	38	50
MW1	03/22/94	123.25	7.52	115.73	540	—	5,900	—	610	24	55	44
MW1	09/22/94	123.25	13.70	109.55	70	—	5,800	—	1,500	86	210	340
MW1	03/24/95	123.25	3.76	119.49	370	—	1,500	—	260	30	58	85
MW1	08/30/95	123.25	11.81	111.44	390	—	12,000	—	2,800	210	410	580
MW1	03/19/96	123.25	5.52	117.73	<50	—	730	—	230	18	54	46
MW1	09/16/96	123.25	17.30	105.95	<50	—	470	—	74	20	18	32
MW1	03/24/97	123.25	14.27	108.98	70	—	170	—	21	8.7	6.7	11
MW1	09/29/97	123.25	18.00	105.25	60	—	550	—	74	21	28	44
MW1	04/30/98	123.25	7.55	115.70	<50	—	250	—	25	3.0	11	13
MW1	07/30/98	123.25	11.83	111.42	<50	—	4,000	24	510	170	180	240
MW1	10/27/98	123.25	23.97	99.28	<50	—	490	6	8	3	3	4

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Redwood Oil Facility 114
1855 Guerneville Road
Santa Rosa, California
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TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
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Well ID	Sample Date	TOC (fmsl)	DTW (fbgs)	GW Elev. (fmsl)	TPHd ($\mu\text{g/L}$)	TPH Diesel-range ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)
MW2	02/19/92	122.68	6.05	116.63	—	—	—	—	—	—	—	—
MW2	03/30/92	123.14	6.55	116.59	—	—	—	—	—	—	—	—
MW2	04/23/92	123.14	6.24	116.90	—	—	—	—	—	—	—	—
MW2	05/18/92	123.14	7.09	116.05	—	—	—	—	—	—	—	—
MW2	06/16/92	123.14	7.65	115.49	—	—	—	—	—	—	—	—
MW2	07/24/92	123.14	9.51	113.63	—	—	—	—	—	—	—	—
MW2	08/18/92	123.14	9.50	113.64	—	—	—	—	—	—	—	—
MW2	09/24/92	123.14	8.97	114.17	—	—	—	—	—	—	—	—
MW2	10/21/92	123.14	8.73	114.41	—	—	—	—	—	—	—	—
MW2	11/16/92	123.14	8.64	114.50	—	—	—	—	—	—	—	—
MW2	12/16/92	123.14	7.07	116.07	—	—	—	—	—	—	—	—
MW2	01/13/93	123.14	5.78	117.36	—	—	—	—	—	—	—	—
MW2	02/23/93	123.14	10.19	112.95	—	—	—	—	—	—	—	—
MW2	03/17/93	123.14	8.41	114.73	—	—	—	—	—	—	—	—
MW2	04/16/93	123.14	6.75	116.39	—	—	—	—	—	—	—	—
MW2	05/14/93	123.14	8.47	114.67	—	—	—	—	—	—	—	—
MW2	09/30/93	123.14	13.61	109.53	—	—	—	—	—	—	—	—
MW2	03/22/94	123.14	6.34	116.80	25,000	—	25,000	—	370	670	640	3,400
MW2	09/22/94	123.20	8.40	114.80	30,000	—	51,000	—	730	1,700	1,700	8,300
MW2	03/27/95	123.20	5.92	117.28	—	—	—	—	—	—	—	—
MW2	08/30/95	123.20	7.96	115.24	—	—	—	—	—	—	—	—
MW2	03/19/96	123.20	6.14	117.06	13,000	—	19,000	—	120	79	540	1,600
MW2	09/16/96	123.20	7.15	116.05	—	—	—	—	—	—	—	—
MW2	03/24/97	123.20	5.00	118.20	32,000	—	53,000	—	650	1,000	3,000	13,000
MW2	09/29/97	123.20	7.16	116.04	—	—	—	—	—	—	—	—
MW2	04/30/98	123.20	4.83	118.37	1,600	—	64,000	—	390	0.5	1,600	5,700
MW2	07/30/98	123.20	5.87	117.33	77,000	—	340,000	5	640	290	3,000	8,200
MW2	10/27/98	123.20	7.32	115.88	1,200,009	—	110,000	6	240	50	1,400	3,000
MW2	01/27/99	123.20	4.67	118.53	29,000	—	31,000	<500	240	92	1,500	3,200
MW2	04/21/99	123.20	6.28	116.92	120,008	—	19,000	40	48	85	290	1,100
MW2	07/29/99	123.20	7.92	115.28	14,000	—	16,000	260	110	50	500	450
MW2	10/28/99	123.20	20.30	102.90	120,008	—	190,000	<50	960	770	5,100	1,300
MW2	02/04/00	123.20	7.89	115.31	8,100	—	9,300	60	13	42	130	440
MW2	04/27/00	123.20	13.25	109.95	5,700	—	19,000	240	1,400	900	710	2,000
MW2	07/25/00	123.20	8.77	114.43	1,700	—	11,000	3.21	52	20	55	120
MW2	10/26/00	123.20	15.42	107.78	2,000	—	10,000	57	380	200	310	650
MW2	01/17/01	123.20	8.75	114.45	4,900	—	4,100	19	190	39	170	310
MW2	04/24/01	123.20	16.24	106.96	5,000	—	3,400	84	130	42	170	270
MW2	07/31/01	123.20	11.11	112.09	4,600	—	3,900	<50	290	22	110	70
MW2	12/05/01	122.57	23.00	99.57	1,700	—	6,200	6.5	120	110	90	490
MW2	01/31/02	122.57	23.00	99.57	1,100	—	370	<5	4.2	2.1	3	18.8
MW2	04/17/02	122.57	18.10	104.47	1,100	—	910	74	35	16	9	62
MW2	07/10/02	122.57	18.25	104.32	2,100	—	920	45	22	4	1	26

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
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Well ID	Sample Date	TOC (fmsl)	DTW (ftgsl)	GW Elev. (fmsl)	TPHd ($\mu\text{g/L}$)	TPH Diesel-range ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)
MW2	10/10/02	122.57	18.16	104.41	2,100	—	120,024	52	1.1	4.7	0.5	18
MW2	01/13/03	122.57	5.18	117.39	4,200	—	1,600	<2	16	—	—	—
MW2	03/14/03	122.57	17.85	104.72	—	—	—	14	4	<1	<1	1
MW2	04/16/03	122.57	14.50	108.07	520	—	<50	67	66	4	26	13
MW2	07/16/03	122.57	18.50	104.07	2,300	—	1,100	100	190	9	140	29
MW2	10/21/03	122.57	14.69	107.88	5,800	—	2,700	420	8.7	1.2	0.9	6
MW2	04/06/04	122.57	14.69	107.88	<210	—	1,100	<1	24	1.5	22	8
MW2	12/31/04	122.57	3.84	118.73	1,000	—	4,900	<5	21	7.7	14	52
MW2	04/22/05	122.57	4.27	118.30	2,200a	—	5,100c	<5.0	7.1	<2.5	3.0	<2.5
MW2	08/24/05	122.57	6.74	115.83	4,300b	—	1,200	<0.50	12	0.80	13	1.4
MW2	03/08/06	122.57	3.21	119.36	<300	—	—	—	—	—	—	—
MW3	09/01/89	106.88	14.14	92.74	—	—	—	—	—	—	—	—
MW3	10/06/89	106.88	—	—	—	—	85,700	—	720	2,640	720	7,860
MW3	06/01/90	106.88	8.44	98.44	—	—	—	—	—	—	—	—
MW3	11/15/90	106.88	—	—	1,300	—	16,000	—	1,000	420	<50	2,000
MW3	02/01/91	122.73	11.35	111.38	1,500	—	22,000	—	2,400	1,300	940	3,100
MW3	03/01/91	122.73	9.83	112.90	—	—	—	—	—	—	—	—
MW3	04/01/91	122.73	5.84	116.89	—	—	—	—	—	—	—	—
MW3	05/16/91	122.73	9.48	113.25	1,400	—	21,000	—	1,800	1,000	710	2,300
MW3	06/07/91	122.73	10.95	111.78	—	—	—	—	—	—	—	—
MW3	07/01/91	122.73	7.20	115.53	—	—	—	—	—	—	—	—
MW3	08/01/91	122.73	12.85	109.88	—	—	—	—	—	—	—	—
MW3	08/16/91	122.73	14.15	108.58	960	—	16,000	—	1,400	730	120	1,200
MW3	09/09/91	122.73	14.42	108.31	—	—	—	—	—	—	—	—
MW3	10/04/91	122.73	14.57	108.16	—	—	—	—	—	—	—	—
MW3	11/06/91	122.73	13.28	109.45	—	—	—	—	—	—	—	—
MW3	12/06/91	122.73	12.34	110.39	3,600	—	19,000	—	2,300	1,000	690	1,900
MW3	01/06/92	122.73	10.42	112.31	—	—	—	—	—	—	—	—
MW3	02/19/92	122.73	5.79	116.94	—	—	—	—	—	—	—	—
MW3	03/30/92	122.73	6.07	116.66	3,900	—	12,000	—	580	590	320	2,000
MW3	04/23/92	122.73	7.46	115.27	—	—	—	—	—	—	—	—
MW3	05/18/92	122.73	9.13	113.60	—	—	—	—	—	—	—	—
MW3	06/16/92	122.73	10.51	112.22	21,000	—	17,000	—	2,100	1,300	620	2,000
MW3	07/24/92	122.73	12.92	109.81	—	—	—	—	—	—	—	—
MW3	08/18/92	122.73	13.04	109.69	—	—	—	—	—	—	—	—
MW3	09/24/92	122.73	13.96	108.77	5,800	—	72,000	—	1,500	350	600	1,600
MW3	10/21/92	122.73	13.40	109.33	—	—	—	—	—	—	—	—
MW3	11/16/92	122.73	13.88	108.85	—	—	—	—	—	—	—	—
MW3	12/16/92	122.73	8.40	114.33	140	—	250	—	0.5	0.5	0.5	2
MW3	01/13/93	122.73	5.73	117.00	—	—	—	—	—	—	—	—
MW3	02/23/93	122.73	9.39	113.34	—	—	—	—	—	—	—	—
MW3	03/17/93	122.73	8.82	113.91	790	—	2,300	—	380	130	48	130

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
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Well ID	Sample Date	TOC (fmsl)	DTW (fbgs)	GW Elev. (fmsl)	TPHd ($\mu\text{g/L}$)	TPH Diesel-range ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)
MW3	04/16/93	122.73	7.64	115.09	—	—	—	—	—	—	—	—
MW3	05/14/93	122.73	7.57	115.16	—	—	—	—	—	—	—	—
MW3	09/30/93	122.73	14.10	108.63	2,300	—	14,000	—	1,900	450	500	1,000
MW3	03/22/94	122.72	5.80	116.92	1,100	—	200	—	7.4	7.9	5	20
MW3	09/22/94	122.72	—	—	—	—	—	—	—	—	—	—
MW3	03/27/95	122.72	—	—	—	—	—	—	—	—	—	—
MW3	08/30/95	122.72	—	—	—	—	—	—	—	—	—	—
MW3	03/19/96	122.72	8.91	113.81	<50	—	920	—	41	24	25	66
MW3	09/16/96	122.72	17.26	105.46	<100	—	9,500	—	710	500	380	1,200
MW3	03/24/97	122.72	13.85	108.87	410	—	1,300	—	17	4.1	6.4	42
MW3	09/29/97	122.72	13.63	109.09	<50	—	1,900	—	140	44	69	160
MW3	04/30/98	122.72	5.22	117.50	<50	—	<50	—	0.5	0.5	0.5	0.82
MW3	07/30/98	122.72	9.29	113.43	2,100	—	16,000	32	320	450	540	1,600
MW3	10/27/98	122.72	19.27	103.45	500	—	1,000	7	6	0.5	2	3
MW3	01/27/99	122.72	8.72	114.00	<50	—	<50	5	0.5	0.5	0.5	0.5
MW3	04/21/99	122.72	10.97	111.75	<50	—	72	18	2.1	1.4	2.6	10
MW3	07/29/99	122.72	12.03	110.69	2608	—	920	19	50	30	38	110
MW3	10/28/99	122.72	11.04	111.68	4908	—	2,200	5	65	36	80	210
MW3	02/04/00	122.72	5.12	117.60	<50	—	<50	0.5	0.5	0.5	0.5	0.5
MW3	04/27/00	122.72	4.90	117.82	<50	—	220	8.1	0.96	0.72	1.6	2.4
MW3	07/25/00	122.72	9.62	113.10	110	—	160	6.7	16	2.7	4.2	2.9
MW3	10/26/00	122.72	10.61	112.11	<50	—	2,100	12	86	6.3	31	9.8
MW3	01/17/01	122.72	9.64	113.08	340	—	440	7.1	46	3.6	14	6.1
MW3	04/24/01	122.72	5.46	117.26	61	—	93	5	0.66	0.5	0.5	0.5
MW3	07/31/01	122.72	10.31	112.41	150	—	460	15	12	1.9	5.9	4.4
MW3	12/05/01	123.26	23.00	100.26	120	—	80	<5	0.89	0.52	0.5	4.4
MW3	01/31/02	123.26	23.00	100.26	<50	—	230	<5	7.3	2.6	10	22.6
MW3	04/17/02	123.26	21.10	102.16	260	—	1,500	11	31	11	11	132
MW3	07/10/02	123.26	11.45	111.81	160	—	1,400	32	53	100	49	245
MW3	10/10/02	123.26	—	—	—	—	—	—	—	—	—	—
MW3	01/13/03	123.26	3.05	120.21	—	—	—	—	—	—	—	—
MW3	03/14/03	123.26	11.80	111.46	57	—	<50	<1	0.5	0.5	0.5	<1
MW3	04/16/03	123.26	11.30	111.96	<50	—	63	2	2	<1	1	4
MW3	07/16/03	123.26	11.15	112.11	190	—	120	10	5	<1	4	5
MW3	10/21/03	123.26	12.00	111.26	760	—	370	6	47	3	28	21
MW3	04/06/04	123.26	12.00	111.26	<50	—	120	0.5	1.3	0.7	2.4	6
MW3	12/31/04	123.26	4.91	118.35	<50	—	<50	<1	<0.5	<0.5	<0.5	<0.5
MW3	04/22/05	123.26	3.36	119.90	<50	—	46	<1	<0.5	<0.5	<0.5	<0.5
MW3	08/24/05	123.26	9.01	114.25	<50	370	940c	<1.0	1.6	0.74	2.2	3.2
MW3	03/08/06	123.26	4.35	118.91	<50	—	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW4	03/22/94	122.64	6.45	116.19	1,500	—	5,900	—	150	110	130	420
MW4	09/22/94	122.64	11.54	111.10	70	—	4,600	—	360	130	220	370

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Redwood Oil Facility 114
1855 Guerneville Road
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TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Redwood Oil Facility 114
1855 Guerneville Road
Santa Rosa, California
(Page 7 of 14)

Well ID	Sample Date	TOC (fmsl)	DTW (fbgs)	GW Elev. (fmsl)	TPHd (µg/L)	TPH Diesel-range (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW5	10/21/92	122.14	—	—	—	—	—	—	—	—	—	—
MW5	11/16/92	122.14	—	—	—	—	—	—	0.5	0.5	0.5	0.5
MW5	12/16/92	122.14	10.19	111.95	<50	—	—	—	—	—	—	—
MW5	01/13/93	122.14	4.74	117.40	—	—	—	—	—	—	—	—
MW5	02/23/93	122.14	10.93	111.21	—	—	—	—	—	—	—	—
MW5	03/17/93	122.14	6.85	115.29	690	—	—	—	0.5	0.5	0.5	0.5
MW5	04/16/93	122.14	10.61	111.53	—	—	—	—	—	—	—	—
MW5	05/14/93	122.14	7.73	114.41	—	—	—	—	—	—	—	—
MW5	09/30/93	122.14	—	—	—	—	—	—	—	—	—	—
MW5	03/22/94	122.14	10.87	111.27	660	—	—	90	—	2.7	0.5	1
MW5	09/22/94	122.14	11.98	110.16	—	—	—	—	—	—	—	—
MW5	03/27/95	122.14	4.75	117.39	110	—	—	140	—	20	27	7.3
MW5	08/30/95	122.14	9.86	112.28	50	—	—	<50	—	0.5	0.5	0.5
MW5	03/19/96	122.14	10.21	111.93	<50	—	—	290	—	22	24	10
MW5	09/16/96	122.14	—	—	—	—	—	—	—	—	—	—
MW5	03/24/97	122.14	—	—	—	—	—	—	—	—	—	—
MW5	09/29/97	122.14	—	—	—	—	—	—	—	—	—	—
MW5	04/30/98	122.14	—	—	—	—	—	—	—	—	—	—
MW5	07/30/98	122.14	—	—	—	—	—	—	—	—	—	—
MW5	10/27/98	122.14	—	—	—	—	—	—	—	—	—	—
MW5	01/27/99	122.14	—	—	—	—	—	—	—	—	—	—
MW5	04/21/99	122.14	—	—	—	—	—	—	—	—	—	—
MW5	Well destroyed.											
MW6	03/30/92	122.86	7.38	115.48	14,000	—	69,000	—	11,000	19,000	1,400	16,000
MW6	04/23/92	122.86	7.63	115.23	—	—	—	—	—	—	—	—
MW6	05/18/92	122.86	8.62	114.24	—	—	—	—	—	—	—	—
MW6	06/16/92	122.86	9.97	112.89	<50	—	73,000	—	5,900	1,400	2,400	6,700
MW6	07/24/92	122.86	11.72	111.14	—	—	—	—	—	—	—	—
MW6	08/18/92	122.86	11.93	110.93	—	—	—	—	—	—	—	—
MW6	09/24/92	122.86	—	—	—	—	—	—	—	—	—	—
MW6	10/21/92	122.86	—	—	—	—	—	—	—	—	—	—
MW6	11/16/92	122.86	—	—	—	—	—	—	—	—	—	—
MW6	12/16/92	122.86	10.9	111.96	17,000	—	61,000	—	6,700	8,700	770	9,100
MW6	01/13/93	122.86	6.67	116.19	—	—	—	—	—	—	—	—
MW6	02/23/93	122.86	10.65	112.21	—	—	—	—	360	140	17	580
MW6	03/17/93	122.86	8.68	114.18	1,800	—	2,800	—	—	—	—	—
MW6	04/16/93	122.86	7.45	115.41	—	—	—	—	—	—	—	—
MW6	05/14/93	122.86	7.48	115.38	—	—	—	—	—	—	—	—
MW6	09/30/93	122.86	—	—	—	—	—	—	620	92	290	660
MW6	03/22/94	122.86	7.03	115.83	22,000	—	5,000	—	620	92	—	—
MW6	09/22/94	122.86	12.24	110.62	—	—	—	—	3,900	2,000	1,000	3,200
MW6	03/27/95	122.86	8.61	114.25	6,300	—	18,000	—	—	—	—	—

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
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Well ID	Sample Date	TOC (fmsl)	DTW (fbgs)	GW Elev. (fmsl)	TPHd ($\mu\text{g/L}$)	TPH Diesel-range ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)
MW6	08/30/95	122.86	10.3	112.56	—	—	28,000	—	3,200	290	1,500	2,500
MW6	03/19/96	122.86	8.21	114.65	<100	—	20,000	—	3,600	780	1,300	2,500
MW6	09/16/96	122.86	—	—	—	—	—	—	—	—	—	—
MW6	03/24/97	122.86	—	—	—	—	—	—	—	—	—	—
MW6	09/29/97	122.86	—	—	—	—	—	—	—	—	—	—
MW6	04/30/98	122.86	—	—	—	—	—	—	—	—	—	—
MW6	07/30/98	122.86	—	—	—	—	—	—	—	—	—	—
MW6	10/27/98	122.86	—	—	—	—	—	—	—	—	—	—
MW6	01/27/99	122.86	—	—	—	—	—	—	—	—	—	—
MW6	04/21/99	122.86	8.38	114.48	1908	—	3,600	5	300	41	150	150
MW6	07/29/99	122.86	—	—	—	—	—	—	—	—	—	—
MW6	04/27/00	122.86	7.51	115.35	<50	—	1,400	18	71	15	21	13
MW6	Well destroyed.											
MW7	03/30/92	123.53	5.53	118.00	5,040	—	86,000	—	20,000	22,000	3,200	14,000
MW7	04/23/92	123.53	6.57	116.96	—	—	—	—	—	—	—	—
MW7	05/18/92	123.53	7.66	115.87	—	—	—	—	—	—	—	—
MW7	06/16/92	123.53	—	—	—	—	—	—	—	—	—	—
MW7	06/22/92	123.53	—	—	<50	—	310,000	—	24,000	30,000	7,000	30,000
MW7	07/24/92	123.53	12.03	111.50	—	—	—	—	—	—	—	—
MW7	08/18/92	123.53	12.14	111.39	—	—	—	—	—	—	—	—
MW7	09/24/92	123.53	12.83	110.70	32,000	—	110,000	—	23,000	27,000	3,300	16,000
MW7	10/21/92	123.53	12.63	110.90	—	—	—	—	—	—	—	—
MW7	11/16/92	123.53	12.71	110.82	—	—	—	—	—	—	—	—
MW7	12/16/92	123.53	7.75	115.78	11,000	—	67,000	—	12,000	15,000	1,100	7,800
MW7	01/13/93	123.53	5.40	118.13	—	—	—	—	—	—	—	—
MW7	02/23/93	123.53	10.81	112.72	—	—	—	—	—	—	—	—
MW7	03/17/93	123.53	7.67	115.86	12,000	—	48,000	—	10,000	14,000	1,400	7,800
MW7	04/16/93	123.53	6.35	117.18	—	—	—	—	—	—	—	—
MW7	05/14/93	123.53	8.38	115.15	—	—	—	—	—	—	—	—
MW7	09/30/93	123.53	13.45	110.08	14,000	—	74,000	—	7,600	11,000	1,400	7,700
MW7	03/22/94	123.50	6.20	117.30	27,000	—	63,000	—	7,600	12,000	1,100	8,300
MW7	09/22/94	123.50	13.70	109.80	1,100	—	76,000	—	11,000	13,000	1,500	8,900
MW7	03/27/95	123.50	3.87	119.63	—	—	—	—	—	—	—	—
MW7	08/30/95	123.50	9.14	114.36	5,400	—	100,000	—	16,000	4,800	2,600	13,000
MW7	03/19/96	123.50	6.19	117.31	<250	—	64,000	—	9,000	9,800	1,600	8,300
MW7	09/16/96	123.50	13.83	109.67	<500	—	50,000	—	5,500	6,800	1,600	7,100
MW7	03/24/97	123.50	13.50	110.00	4,600	—	68,000	—	5,800	9,600	2,700	11,000
MW7	09/29/97	123.50	13.42	110.08	3,600	—	21,000	—	1,700	1,900	910	3,800
MW7	04/30/98	123.50	7.60	115.90	290	—	16,000	—	1,300	1,300	630	2,300
MW7	07/30/98	123.50	13.07	110.43	660	—	18,000	20	310	560	530	2,000
MW7	10/27/98	123.50	13.98	109.52	4	—	11,000	54	780	460	310	1,500
MW7	01/27/99	123.50	13.58	109.92	<50	—	32,000	360	1,500	1,900	1,100	3,700

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
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Well ID	Sample Date	TOC (fmsl)	DTW (fbgs)	GW Elev. (fmsl)	TPHd (µg/L)	TPH Diesel-range (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW7	04/21/99	123.50	5.65	117.85	510	—	15,000	130	800	510	410	1,400
MW7	07/29/99	123.50	10.85	112.65	1,900	—	7,000	150	330	120	330	810
MW7	10/28/99	123.50	13.68	109.82	1,300	—	11,000	5	300	32	630	1,500
MW7	02/04/00	123.50	13.56	109.94	<50	—	26,000	980	980	1,300	710	2,800
MW7	04/27/00	123.50	9.56	113.94	490	—	3,000	1,100	110	32	170	290
MW7	07/25/00	123.50	—	—	—	—	—	—	—	—	—	—
MW7	10/26/00	123.50	10.60	112.90	<50	—	1,100	0.5	34	19	21	74
MW7	01/17/01	123.50	10.14	113.36	1,100	—	600	5	5.1	2.2	12	17
MW7	04/24/01	123.50	13.26	110.24	5,300	—	10,000	<250	580	990	610	2,100
MW7	07/31/01	123.50	11.77	111.73	390	—	750	16	16	8.6	24	38
MW7	12/05/01	124.46	27.00	97.46	150	—	610	33	81	46	18	82
MW7	01/31/02	124.46	27.00	97.46	260	—	1,400	22	72	43	5.5	191
MW7	04/17/02	124.46	25.80	98.66	460	—	1,500	29	37	67	12	320
MW7	07/10/02	124.46	25.85	98.61	340	—	1,700	36	55	130	60	292
MW7	10/10/02	124.46	25.80	98.66	380	—	670	21	4.8	6.4	1.1	20
MW7	01/13/03	124.46	7.91	116.55	1,900	—	9,800	14	360	230	470	1,500
MW7	03/14/03	124.46	25.80	98.66	—	—	—	—	—	—	—	—
MW7	04/16/03	124.46	25.80	98.66	<50	—	<50	14	<1	<1	<1	<1
MW7	07/16/03	124.46	25.80	98.66	110	—	<50	15	1	<1	<1	<1
MW7	10/21/03	124.46	25.80	98.66	<50	—	<50	2	<1	<1	<1	<1
MW7	04/06/04	124.46	25.80	98.66	1,700	—	3,700	7.2	150	82	200	437
MW7	12/31/04	124.46	8.17	116.29	<50	—	3,200	<2	150	66	120	210
MW7	04/22/05	124.46	7.36	117.10	<50	—	8,700	14	170	110	360	340
MW7	08/24/05	124.46	12.38	112.08	<50	440	2,300c	<30	98	<20	92	23
MW7	03/08/06	124.46	5.07	119.39	<400	—	4,300	5.9	130	49	240	150
MW8	03/30/92	124.10	6.00	118.10	9,090	—	22,000	—	860	3,200	580	4,000
MW8	04/23/92	124.10	6.89	117.21	—	—	—	—	—	—	—	—
MW8	05/18/92	124.10	9.00	115.10	—	—	—	—	—	—	—	—
MW8	06/16/92	124.10	11.71	112.39	<50	—	83,000	—	10,000	16,000	1,900	8,500
MW8	07/24/92	124.10	14.51	109.59	—	—	—	—	—	—	—	—
MW8	08/18/92	124.10	14.65	109.45	—	—	—	—	—	—	—	—
MW8	09/24/92	124.10	15.58	108.52	—	—	—	—	—	—	—	—
MW8	10/21/92	124.10	15.43	108.67	—	—	—	—	—	—	—	—
MW8	11/16/92	124.10	5.46	118.64	—	—	—	—	—	—	—	—
MW8	12/16/92	124.10	7.73	116.37	—	—	—	—	—	—	—	—
MW8	01/13/93	124.10	5.30	118.80	—	—	—	—	—	—	—	—
MW8	02/23/93	124.10	10.31	113.79	—	—	—	—	—	—	—	—
MW8	03/17/93	124.10	7.67	116.43	—	—	—	—	—	—	—	—
MW8	04/16/93	124.10	6.56	117.54	—	—	—	—	—	—	—	—
MW8	05/14/93	124.10	8.13	115.97	—	—	110,000	—	12,000	34,000	4,000	22,000
MW8	09/30/93	124.10	15.10	109.00	35,000	—	69,000	—	1,400	12,000	2,800	15,000
MW8	03/22/94	123.95	5.10	118.85	460,000	—	—	—	—	—	—	—

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
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Well ID	Sample Date	TOC (fmsl)	DTW (fbgs)	GW Elev. (fmsl)	TPHd (µg/L)	TPH Diesel-range (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW8	09/22/94	123.95	13.86	110.09	4,600	—	66,000	—	2,300	8,400	1,900	10,000
MW8	03/27/95	123.95	3.25	120.70	—	—	—	—	—	—	—	—
MW8	08/30/95	123.95	11.05	112.90	—	—	5,800	—	5.3	130	91	480
MW8	03/19/96	123.95	4.08	119.87	<50	—	18,000	—	110	810	320	2,900
MW8	09/16/96	123.95	14.49	109.46	<500	—	20,000	—	40	45	67	170
MW8	03/24/97	123.95	5.58	118.37	8,600	—	1,200	—	19	1.1	2.2	5.6
MW8	09/29/97	123.95	13.29	110.66	640	—	260	—	0.87	0.5	1.1	1.9
MW8	04/30/98	123.95	5.55	118.40	<50	—	6,100	5	33	150	100	410
MW8	07/30/98	123.95	10.42	113.53	250	—	6,900	2	9	20	42	240
MW8	10/27/98	123.95	15.41	108.54	59	—	600	5	0.5	1.4	1.3	8.9
MW8	01/27/99	123.95	5.42	118.53	<50	—	2,100	7.7	4.3	0.76	4.1	37
MW8	04/21/99	123.95	7.70	116.25	100	—	9,800	88	24	60	130	630
MW8	07/29/99	123.95	11.01	112.94	1,300	—	24,000	<50	<50	310	330	1,500
MW8	10/28/99	123.95	16.98	106.97	—	—	2,200,000	<500	<500	7,200	9,600	82,000
MW8	02/04/00	123.95	10.78	113.17	160,000	—	—	—	—	—	—	—
MW8	03/09/00	123.95	—	—	3,300	—	9,600	90	27	200	140	690
MW8	03/09/00	123.95	—	—	3,100	—	12,000	260	<50	260	150	800
MW8	04/27/00	123.95	14.82	109.13	12,000	—	47,000	240	130	760	590	2,100
MW8	07/25/00	123.95	12.50	111.45	2,200	—	16,000	<10	55	29	68	210
MW8	10/26/00	123.95	—	—	530,000	—	110,000	<550	<550	<550	900	3,400
MW8	01/17/01	123.95	15.57	108.38	83,000	—	1,400	<50	52	55	24	150
MW8	04/24/01	123.95	8.10	115.85	55,000	—	43,000	<500	<50	300	450	3,100
MW8	07/31/01	123.95	14.31	109.64	7,000	—	11,000	<250	93	100	69	210
MW8	12/05/01	124.07	27.00	97.07	81	—	380	<5	3	5.1	2.1	28
MW8	01/31/02	124.07	27.00	97.07	<50	—	<50	<5	0.5	0.5	0.5	0.5
MW8	04/17/02	124.07	20.05	104.02	1,000	—	3,100	<1	30	5	1	207
MW8	07/10/02	124.07	25.82	98.25	1,100	—	3,200	2	340	52	13	450
MW8	10/10/02	124.07	25.80	98.27	2,000	—	11,000	<25	550	220	130	370
MW8	01/13/03	124.07	3.60	120.47	880	—	150	<1	0.5	0.5	0.5	4.6
MW8	03/14/03	124.07	25.80	98.27	—	—	—	—	—	—	—	—
MW8	04/16/03	124.07	7.61	116.46	7,400	—	1,300	<1	41	22	6	86
MW8	07/16/03	124.07	25.80	98.27	32,000	—	750	3	26	24	8	91
MW8	10/21/03	124.07	25.80	98.27	1,600	—	4,600	<1	8	59	8	470
MW8	04/06/04	124.07	25.80	98.27	<50	—	61	0.5	0.5	0.5	0.5	1.4
MW8	12/31/04	124.07	3.70	120.37	<50	—	<50	<1	<0.5	<0.5	<0.5	<0.5
MW8	04/22/05	124.07	4.11	119.96	<50	—	<25	<1	<0.5	<0.5	<0.5	<0.5
MW8	08/24/05	124.07	7.92	116.15	<50	—	1,100c	<1.0	<0.50	<0.50	<0.50	1.2
MW8	03/08/06	124.07	2.79	121.28	<50	—	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW9	03/22/94	122.57	5.74	116.83	150,000	—	47,000	—	810	2,800	900	11,000
MW9	09/22/94	122.57	8.40	114.17	4,100	—	52,000	—	900	1,300	1,600	7,700
MW9	03/27/95	122.57	5.15	117.42	—	—	—	—	—	—	—	—
MW9	08/30/95	122.57	7.20	115.37	5,500	—	19,000	—	380	220	520	2,100

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
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Well ID	Sample Date	TOC (fmsl)	DTW (fbgs)	GW Elev. (fmsl)	TPHd (µg/L)	TPH Diesel-range (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9	03/19/96	122.57	5.43	117.14	5,000	—	9,000	—	150	140	170	670
MW9	09/16/96	122.57	12.98	109.59	2,000	—	6,500	—	560	720	220	1,100
MW9	03/24/97	122.57	6.42	116.15	290	—	250	—	7.6	1.3	2.5	12
MW9	09/29/97	122.57	12.53	110.04	1,200	—	2,700	—	170	60	1.5	520
MW9	04/30/98	122.57	5.17	117.40	<50	—	350	—	11	0.5	7.7	22
MW9	07/30/98	122.57	7.01	115.56	360	—	<500	5	21	<5	<5	6.8
MW9	10/27/98	122.57	8.80	113.77	<50	—	330	2	0.5	0.5	0.5	<1
MW9	01/27/99	122.57	6.06	116.51	<50	—	100	7.7	8.9	0.5	1.1	0.5
MW9	04/21/99	122.57	5.97	116.60	<50	—	<50	6.6	3.2	0.5	0.5	1.1
MW9	07/29/99	122.57	6.24	116.33	538	—	120	5	0.9	0.8	0.8	1.6
MW9	10/28/99	122.57	11.50	111.07	<50	—	78	0.5	0.5	1	0.5	1.7
MW9	02/04/00	122.57	6.10	116.47	<50	—	200	0.5	8.5	2.8	0.5	3.2
MW9	04/27/00	122.57	5.12	117.45	<50	—	110	11	3.6	1.2	0.5	0.5
MW9	07/25/00	122.57	6.67	115.90	180	—	900	3.1	15	1.9	13	19
MW9	10/26/00	122.57	6.56	116.01	<50	—	510	0.5	8.2	0.8	1.5	0.6
MW9	01/17/01	122.57	9.11	113.46	2,100	—	290	5	5.4	3.8	1.6	8.8
MW9	04/24/01	122.57	6.31	116.26	200	—	160	5	9.6	0.78	2.2	1.6
MW9	07/31/01	122.57	10.95	111.62	100	—	160	5	1.9	0.9	0.5	3.3
MW9	12/05/01	123.60	5.21	118.39	570	—	570	<5	72	6.5	9.2	17
MW9	01/31/02	123.60	8.50	115.10	520	—	820	<5	<5	<5	<5	<5
MW9	04/17/02	123.60	12.51	111.09	54	—	290	1	46	67	6	25
MW9	07/10/02	123.60	13.55	110.05	350	—	220	<1	6	5	2	6
MW9	10/10/02	123.60	14.11	109.49	1,200	—	3,100	<10	<25	<25	98	280
MW9	01/13/03	123.60	4.32	119.28	470	—	580	<2	27	5.3	3.2	9.2
MW9	03/14/03	123.60	8.05	115.55	—	—	—	—	—	—	<1	1
MW9	04/16/03	123.60	7.21	116.39	93	—	87	<1	7	<1	<1	4
MW9	07/16/03	123.60	9.07	114.53	450	—	430	7	<1	<1	<1	1
MW9	10/21/03	123.60	12.88	110.72	76	—	140	2	<1	<1	<1	15.6
MW9	04/06/04	123.60	6.82	116.78	51	—	99	1.1	5.4	4.9	1.2	1,500
MW9	12/31/04	123.60	4.88	118.72	<50	—	14,000	<10	320	560	420	3,900a
MW9	04/22/05	123.60	5.54	118.06	—	—	16,000	<20	190	600	470	1,700
MW9	08/24/05	123.60	7.97	115.63	<50	940	6,500c	<20	29	89	85	270
MW9	03/08/06	123.60	4.56	119.04	<600	—	3,300	<0.50	13	26	110	170
MW10	11/11/99	122.52	15.03	107.49	<50	—	<50	5	0.5	0.5	0.5	0.5
MW10	02/04/00	122.52	11.30	111.22	<50	—	<50	0.5	0.5	0.5	0.5	0.5
MW10	04/27/00	122.52	11.98	110.54	<50	—	<50	7.4	0.5	0.5	0.5	0.5
MW10	07/25/00	122.52	14.60	107.92	120	—	<50	2	0.5	0.5	0.5	0.5
MW10	10/26/00	122.52	15.83	106.69	<50	—	<50	0.5	0.5	0.5	0.5	0.5
MW10	01/17/01	122.52	13.00	109.52	<50	—	<50	5	0.5	0.5	—	—
MW10	04/24/01	122.52	—	—	—	—	—	—	—	—	0.5	0.5
MW10	08/06/01	122.52	16.21	106.31	<50	—	<50	5	0.5	0.5	0.5	0.5
MW10	12/05/01	123.85	9.40	114.45	150	—	<50	<5	0.5	0.5	0.5	0.5

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Redwood Oil Facility 114
1855 Guerneville Road
Santa Rosa, California
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TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Redwood Oil Facility 114
1855 Guerneville Road
Santa Rosa, California
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TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
 (Page 14 of 14)

Well ID	Sample Date	TOC (fmsl)	DTW (fbgs)	GW Elev. (fmsl)	TPHd ($\mu\text{g/L}$)	TPH Diesel-range ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)
V4	04/16/03	124.81	7.14	117.67	—	—	—	—	—	—	—	—
V4	07/16/03	124.81	8.11	116.70	—	—	—	—	—	—	—	—
V4	10/21/03	124.81	10.11	114.70	—	—	—	—	—	—	—	—
V4	04/06/04	124.81	7.16	117.65	—	—	—	—	—	—	—	—
V4	12/31/04	124.81	6.26	118.55	—	—	—	—	—	—	—	—
V4	04/22/05	124.81	6.66	118.15	—	—	—	—	—	—	—	—
V4	08/24/05	124.81	7.86	116.95	—	—	—	—	—	—	—	—
V4	03/08/06	124.81	5.98	118.83	—	—	—	—	—	—	—	—

Notes:

Data collected prior to April, 2004 compiled from the ECM Group Systems Operations Report dated July 9, 2004.

- TOC = Top of well casing elevation; datum is mean sea level.
- DTW = Depth to water.
- GW Elev. = Groundwater elevation; datum is mean sea level.
- TPHd = Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015M.
- TPHg = Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015M.
- TPH-diesel Range = Concentration of hydrocarbons within diesel range, but reported by laboratory as not representative of diesel fuel; probably representative of aged gasoline; by EPA Method 8015M.
- MTBE = Methyl tertiary butyl ether analyzed using EPA Method 8260B. Prior to 12/31/04 analyzed using EPA Method 8021B.
- BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
- ETBE = Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
- TBA = Tertiary butyl alcohol analyzed using EPA Method 8260B.
- DIPE = Di-isopropyl ether analyzed using EPA Method 8260B.
- TAME = Tertiary amyl methyl ether analyzed using EPA Method 8260B.
- 1,2-DCA = 1,2-Dichloroethane analyzed using EPA Method 8260B.
- EDB = 1,2-Dibromoethane analyzed using EPA Method 8260B.
- Ethanol = Ethanol analyzed using EPA Method 8260B.
- Methanol = Methanol analyzed using EPA Method 8015.
- fbgs = Feet below ground surface.
- $\mu\text{g/L}$ = Micrograms per liter.
- mg/L = Milligrams per liter.
- = Not measured/Not sampled/Not analyzed.
- < = Analytes not detected at or above the laboratory reporting limit.
- a = Hydrocarbons reported as diesel do not exhibit a typical diesel chromatographic pattern.
- b = Quantified as diesel-range hydrocarbons consisting of aged gasoline with an unresolved C8-C26 range.
- c = Analyzed using GC-MS.

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
 (Page 1 of 2)

Well ID	Sample Date	ETBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	1,2-DCA ($\mu\text{g/L}$)	EDB ($\mu\text{g/L}$)	Ethanol ($\mu\text{g/L}$)	Methanol (mg/L)
MW1	12/31/04	<5	<10	<5	<5	<0.5	<0.5	<100	—
MW1	04/22/05	<5	<10	<5	<5	<0.5	<0.5	<100	<0.5
MW1	08/24/05	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
MW1	03/08/06	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.050
MW2	12/31/04	<5	<10	<5	<5	<0.5	<0.5	<100	—
MW2	04/22/05	<25	<50	<25	<25	<2.5	<2.5	<500	<0.5
MW2	08/24/05	<25	<50	<25	<25	<2.5	<2.5	<500	<0.50
MW2	03/08/06	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.050
MW3	12/31/04	<5	<10	<5	<5	<0.5	<0.5	<100	—
MW3	04/22/05	<5	<10	<5	<5	<0.5	<0.5	<100	<0.5
MW3	08/24/05	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
MW3	03/08/06	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.050
MW4	12/31/04	<5	<10	<5	<5	<0.5	<0.5	<100	—
MW4	04/22/05	<5	<10	<5	<5	<0.5	<0.5	<100	<0.5
MW4	08/24/05	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
MW4	03/08/06	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.050
MW7	12/31/04	<10	<20	<10	<10	<1	<1	<200	—
MW7	04/22/05	<50	<100	<50	<50	<5	<5	<1,000	<0.5
MW7	08/24/05	<20	<300	<20	<20	<20	<20	<4,000	<0.50
MW7	03/08/06	<0.50	16	<0.50	<0.50	<0.50	<0.50	<5.0	<0.050
MW8	12/31/04	<5	<10	<5	<5	<0.5	<0.5	<100	—
MW8	04/22/05	<5	<10	<5	<5	<0.5	<0.5	<100	<0.5
MW8	08/24/05	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
MW8	03/08/06	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.050
MW9	12/31/04	<50	<100	<50	<50	<5	<5	<1,000	—
MW9	04/22/05	<100	<200	<100	<100	<10	<10	<2,000	<0.5
MW9	08/24/05	<100	<200	<100	<100	<10	<10	<2,000	<0.50
MW9	03/08/06	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.050
MW10	12/31/04	<5	<10	<5	<5	<0.5	<0.5	<100	—
MW10	04/22/05	<5	<10	<5	<5	<0.5	<0.5	<100	<0.5
MW10	08/24/05	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
MW10	03/08/06	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.050

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
 (Page 2 of 2)

Well ID	Sample Date	ETBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Methanol (mg/L)
MW11	12/31/04	<5	<10	<5	<5	<0.5	<0.5	<100	—
MW11	04/22/05	<5	<10	<5	<5	<0.5	<0.5	<100	<0.5
MW11	08/24/05	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
MW11	03/08/06	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.050

Notes:

Data collected prior to April, 2004 compiled from the ECM Group Systems Operations Report dated July 9, 2004.

TOC	=	Top of well casing elevation; datum is mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is mean sea level.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015M.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015M.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
Ethanol	=	Ethanol analyzed using EPA Method 8260B.
Methanol	=	Methanol analyzed using EPA Method 8015.
fbgs	=	Feet below ground surface.
µg/L	=	Micrograms per liter.
mg/L	=	Milligrams per liter.
—	=	Not measured/Not sampled/Not analyzed.
<	=	Analytes not detected at or above the laboratory reporting limit.
a	=	Hydrocarbons reported as diesel do not exhibit a typical diesel chromatographic pattern.
b	=	Quantified as diesel-range hydrocarbons consisting of aged gasoline with an unresolved C8-C26 range.
c	=	Analyzed using GC-MS.

TABLE 2
CUMULATIVE MONITORING AND SAMPLING DATA FOR PRIVATE WATER WELL
AND WELL HEAD TREATMENT SYSTEM

Well ID	Sample Date	Sample ID	TPHd ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	1,2-DCA ($\mu\text{g/L}$)	EDB ($\mu\text{g/L}$)	Ethanol ($\mu\text{g/L}$)	Methanol (mg/L)
DW1815	01/31/05	—	—	—	<1	—	—	—	—	<5	<10	<5	<5	—	—	<100	<0.5
DW1815	02/25/05	—	—	—	<1	—	—	—	—	<5	<10	<5	<5	—	—	<100	<0.5
DW1815	03/30/05	—	—	—	<1	—	—	—	—	<5	<10	<5	<5	—	—	<100	<0.5
DW1815	04/22/05	—	—	—	<1	—	—	—	—	<5.0	<10.0	<5.0	<5.0	—	—	<100	<0.50
DW1815	05/20/05	—	—	—	<1.0	—	—	—	—	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
DW1815	06/17/05	—	—	—	1.3	—	—	—	—	<5.0	<10	<5.0	<5.0	—	—	<100	0.84b
DW1815	07/22/05 a	—	—	—	18.0	—	—	—	—	<5.0	<10	<5.0	<5.0	—	—	<100	<0.50b
DW1815	08/05/05	—	—	—	1.2	—	—	—	—	<5.0	<10	<5.0	<5.0	—	—	<100	<0.50
DW1815	09/23/05	—	—	—	1.1	—	—	—	—	<5.0	<10	<5.0	<5.0	—	—	<100	<0.50
DW1815	October 2005 - Treatment system installed.																
DW1815	10/19/05	W-INF	—	—	1.1	—	—	—	—	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
		W-INT	—	—	<1.0	—	—	—	—	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	0.83c
		W-EFF	—	—	<1.0	—	—	—	—	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
DW1815	11/18/05	W-INF	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<50
		W-INT	54d	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<50
		W-EFF	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<50
DW1815	12/29/05	W-INF	<50	<25	1.3	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<5.0	<5.0	—	—	—	—
		W-INT	<50	<25	<1.0	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<5.0	<5.0	—	—	—	—
		W-EFF	<50	<25	<1.0	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<5.0	<5.0	—	—	—	—
DW1815	01/31/06	W-INF	<50	<50	<1.0	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
		W-INT	<50	<50	<1.0	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
		W-EFF	<50	<50	<1.0	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
DW1815	02/27/06	W-INF	<50	<50	<1.0	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<100	<0.50
		W-INT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		W-EFF	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
DW1815	03/17/06	W-INF	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<10	<5.0	<5.0	<0.50	<0.50	<5.0	<0.050
DW2050	04/21/99	—	—	—	<50	<50	5	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	08/11/99	—	—	—	<50	<50	0.5	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	10/28/99	—	—	—	<50	<50	0.5	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	02/04/00	—	—	—	<50	<50	0.5	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	05/01/00	—	—	—	<50	<50	2	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	07/25/00	—	—	—	<50	<50	2	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	10/26/00	—	—	—	<50	<50	0.5	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	01/17/01	—	—	—	<50	<50	5	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	04/24/01	—	—	—	<50	<50	5	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	07/31/01	—	—	—	<50	<50	5	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	12/05/01	—	—	—	<50	<50	45	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	01/31/02	—	—	—	<50	<50	45	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	04/17/02	—	—	—	<50	<50	2	<1	<1	<1	<1	—	—	—	—	—	—
DW2050	05/24/02	—	—	—	<50	<50	45	0.5	0.5	0.5	0.5	—	—	—	—	—	—
DW2050	07/10/02	—	—	—	<50	<50	4	<1	<1	<1	<1	—	—	—	—	—	—

TABLE 2
CUMULATIVE MONITORING AND SAMPLING DATA FOR PRIVATE WATER WELL
AND WELL HEAD TREATMENT SYSTEM
 Redwood Oil Facility 114
 1855 Guerneville Road
 Santa Rosa, California
 (Page 2 of 4)

Well ID	Sample Date	Sample ID	TPHd (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	ETBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Methanol (mg/L)
DW2050	08/07/02	—	<50	<50	<5	0.5	0.5	0.5	<1	—	—	—	—	—	—	—	—
DW2050	10/10/02	—	<50	<50	5.7	0.5	0.5	0.5	<1	—	—	—	—	—	—	—	—
DW2050	01/13/03	—	<50	<50	4.4	0.5	0.5	0.5	<1	—	—	—	—	—	—	—	—
DW2050	04/16/03	—	<50	<50	4	<1	<1	<1	<1	—	—	—	—	—	—	—	—
DW2050	07/16/03	—	<50	<50	9	<1	<1	<1	<1	—	—	—	—	—	—	—	—
DW2050	10/21/03	—	<50	<50	11	<1	<1	<1	<1	—	—	—	—	—	—	—	—
DW2050	04/06/04	—	<50	<50	6.4	0.5	0.5	0.5	<1	—	—	—	—	—	—	—	—
DW2050	12/31/04	—	<50	<50	27	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—
DW2050	01/31/05	—	<50	<50	22	—	—	—	—	—	22	<5	<10	<5	<5	<0.5	<100
DW2050	02/25/05	—	<50	<50	19	—	—	—	—	—	—	—	—	—	—	<100	<0.5
DW2050	03/30/05	—	<50	<50	15	—	—	—	—	—	—	—	—	—	—	<100	<0.5
DW2050	04/22/05	—	<50	<50	20	—	—	—	—	—	—	—	—	—	—	<100	<0.50
DW2050	05/20/05	—	<50	<50	7.6	—	—	—	—	—	—	—	—	—	—	<100	<0.50
DW2050	06/17/05	—	<50	<50	16	—	—	—	—	—	—	—	—	—	—	<100	<0.50
DW2050	07/22/05 a	—	<1.0	<1.0	—	—	—	—	—	—	—	—	—	—	—	<100	0.63b
DW2050	08/05/05	—	<50	<50	20	—	—	—	—	—	—	—	—	—	—	<100	2.1b
DW2050	09/23/05	—	<50	<50	26	—	—	—	—	—	—	—	—	—	—	<100	<0.50
DW2050	October 2005 - Treatment system installed.				—	—	—	—	—	—	—	—	—	—	—	—	<0.50
DW2050	10/19/05	W-INF	—	—	20.0	—	—	—	—	—	—	—	—	—	—	—	<100
		W-INT	—	—	<1.0	—	—	—	—	—	—	—	—	—	—	—	<0.50
		W-EFF	—	—	<1.0	—	—	—	—	—	—	—	—	—	—	—	<0.50
DW2050	11/18/05	W-INF	<50	<50	20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50
		W-INT	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50
		W-EFF	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50
DW2050	12/29/05	W-INF	<50	<25	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1
		W-INT	<50	<25	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1	<1
		W-EFF	<50	<25	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1	<1
DW2050	01/27/06	W-INF	<50	<50	3.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
		W-INT	<50	<50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
		W-EFF	<50	<50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
DW2050	02/27/06	W-INF	<50	<50	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
		W-INT	—	—	<1.0	—	—	—	—	—	—	—	—	—	—	—	—
		W-EFF	—	—	<1.0	—	—	—	—	—	—	—	—	—	—	—	—
DW2050	03/08/06	W-INF	<50	<50	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050
		W-INT	—	—	<0.50	—	—	—	—	—	—	—	—	—	—	—	—
		W-EFF	—	—	<0.50	—	—	—	—	—	—	—	—	—	—	—	—
DW2075	07/24/01	—	<50	<50	5	0.5	0.5	0.5	0.5	—	—	—	—	—	—	—	—
DW2075	12/05/01	—	<50	<50	<5	0.5	0.5	0.5	0.5	—	—	—	—	—	—	—	—
DW2075	01/31/02	—	<50	<50	<5	0.5	0.5	0.5	0.5	—	—	—	—	—	—	—	—
DW2075	04/17/02	—	<50	<50	<1	<1	<1	<1	<1	—	—	—	—	—	—	—	—
DW2075	07/10/02	—	<50	<50	<1	<1	<1	<1	<1	—	—	—	—	—	—	—	—
DW2075	10/10/02	—	<50	<50	<5	0.5	0.5	0.5	0.5	<1	—	—	—	—	—	—	—
DW2075	01/13/03	—	<50	<50	<1	0.5	0.5	0.5	0.5	<1	—	—	—	—	—	—	—
DW2075	04/16/03	—	<50	<50	<1	<1	<1	<1	<1	<1	—	—	—	—	—	—	—

TABLE 2
CUMULATIVE MONITORING AND SAMPLING DATA FOR PRIVATE WATER WELL
AND WELL HEAD TREATMENT SYSTEM

TABLE 2
CUMULATIVE MONITORING AND SAMPLING DATA FOR PRIVATE WATER WELL
AND WELL HEAD TREATMENT SYSTEM

Redwood Oil Facility 114
1855 Guerneville Road
Santa Rosa, California
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Notes:

Data collected prior to April, 2004 compiled from the ECM Group *Systems Operations Report* dated July 9, 2004.

TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015M.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8260B. Prior to 10/19/05, analyzed using EPA Method 8015M.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B. Prior to 12/31/04 analyzed using EPA Method 8021B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B. Prior to 10/19/05, analyzed using EPA Method 8021B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
Ethanol	=	Ethanol analyzed using EPA Method 8260B.
Methanol	=	Methanol analyzed using EPA Method 8015.
µg/L	=	Micrograms per liter.
mg/L	=	Milligrams per liter.
—	=	Not measured/Not sampled/Not analyzed.
<	=	Analytes not detected at or above the laboratory reporting limit.
a	=	Results not consistent with historical trend; samples for DW1815, DW2050, and DW2075 likely mislabeled in field.
b	=	Methanol results updated on 10/10/05.
c	=	Methanol detection in intermediate port sample likely due to laboratory contamination.
d	=	Hydrocarbons reported as TPH as diesel do not exhibit a typical diesel chromatographic pattern.

TABLE 3
OPERATIONAL AND PERFORMANCE DATA FOR GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
Redwood Oil Facility 114
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TABLE 3
OPERATIONAL AND PERFORMANCE DATA FOR GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
 Redwood Oil Facility 114
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Date	Effluent Totalizer (gal)	Total Flow (gal)	Average Flowrate (gpm)	Sample ID	TPHg (µg/L)	TPHd (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TPHg Removed		MTBE Removed			
												Per Period (lbs)	Cumulative (lbs)	Per Period (lbs)	Cumulative (lbs)		
07/19/02	739,515	2,103,531	1.00											0.50	2.75	0.01	0.062
07/23/02	744,634	2,108,650	0.89														
07/29/02	748,651	2,112,667	0.46														
08/07/02	759,332	2,123,348	0.82	700	340	28	9	2.8		44.00	10						
08/15/02	767,593	2,131,609	0.72														
08/21/02	774,911	2,138,927	0.85														
08/30/02	785,388	2,149,404	0.81														
09/04/02	791,259	2,155,275	0.82														
09/13/02	801,484	2,165,500	0.79														
09/19/02	808,220	2,172,236	0.78														
09/29/02	815,900	2,179,916	0.53														
10/02/02	822,900	2,186,916	1.62														
10/10/02	831,174	2,195,190	0.72														
10/18/02	831,188	2,195,204	0.00														
10/25/02	831,439	2,195,455	0.02														
10/30/02	837,624	2,201,640	0.86														
11/05/02	843,960	2,207,976	0.73	130	150	1.3	< 0.5	< 0.5		2.20	9			0.29	3.04	0.01	0.069
11/21/02	847,216	2,211,232	0.14														
11/27/02	855,167	2,219,183	0.92														
12/06/02	866,774	2,230,790	0.90														
12/13/02	876,287	2,240,303	0.94														
12/17/02	888,451	2,252,467	2.11														
12/27/02	916,240	2,280,256	1.93														
01/24/03	917,807	2,281,823	0.04														
01/28/03	935,181	2,299,197	3.02														
02/05/03	935,181	2,299,197	0.00														
02/07/03	946,481	2,310,497	3.92														
02/12/03	962,200	2,326,216	2.18														
02/20/03	984,662	2,348,678	1.95	110	190	2.9	1	1.6		4.70	7			0.14	3.18	0.01	0.079
02/28/03	1,007,365	2,371,381	1.97														
03/04/03	1,017,703	2,381,719	1.79														
03/11/03	1,035,026	2,399,042	1.72														
03/18/03	1,052,836	2,416,852	1.77														
03/27/03	1,075,172	2,439,188	1.72														
04/04/03	1,075,172	2,439,188	0.00														
04/10/03	1,091,686	2,455,702	1.91														
04/16/03	1,106,350	2,470,366	1.70														
04/24/03	1,127,879	2,491,895	1.87														
05/02/03	1,149,901	2,513,917	1.91														
05/08/03	1,158,417	2,522,433	0.99														
05/14/03	1,168,433	2,532,449	1.16	91	1300	1.9	1	0.7		3.40	7			0.15	3.34	0.01	0.090

TABLE 3
OPERATIONAL AND PERFORMANCE DATA FOR GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

Redwood Oil Facility 114
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TABLE 3
OPERATIONAL AND PERFORMANCE DATA FOR GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
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TABLE 3
OPERATIONAL AND PERFORMANCE DATA FOR GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

Redwood Oil Facility 114
 1855 Guerneville Road
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Notes:

W-INF	=	Influent water sample.
W-INT	=	Intermediate water sample.
W-EFF	=	Effluent water sample.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8260B.
TPHd	=	Total petroleum hydrocarbons as diesel-analyzed using EPA Method 8260B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
Other VOCs	=	Other VOCs analyzed using EPA Method 8260B; see laboratory report for complete list of VOCs analyzed.
gal	=	Gallons.
gpm	=	Gallons per minute.
µg/L	=	Micrograms per liter.
lbs.	=	Pounds.
ND	=	Not detected at or above the stated laboratory detection limit.
<	=	Not detected at or above the stated laboratory detection limit.
—	=	Not sampled/Not analyzed.
a	=	TBA detected at 70 µg/L. Other VOCs were not detected at or above the laboratory detection limit. See analytical report for complete list of VOCs.
b	=	Analyzed using EPA Method 8020.
c	=	Analytical results not typical of past influent results or of monitoring data (ECM entry 08/17/04).
d	=	Effluent sample not required per Subregional Water Management System.

Data collected prior to September, 2004 compiled from the ECM Group Systems Operations Report dated July 9, 2004.

ATTACHMENT A

GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

The static water level and separate-phase product level, if present, in each well that contained water and/or separate-phase product are measured with an ORS Interface Probe, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from top of casing elevations.

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® or polypropylene bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples are checked for measurable free-phase hydrocarbons or sheen. If appropriate, free-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until a minimum of three well casing volumes is purged and stabilization of the temperature, pH, and conductivity is obtained. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples." The quantity of water purged from each well is calculated as follows:

$$1 \text{ well casing volume} = \pi r^2 h(7.48) \text{ where:}$$

r	=	radius of the well casing in feet.
h	=	column of water in the well in feet (depth to bottom - depth to water)
7.48	=	conversion constant from cubic feet to gallons
π	=	ratio of the circumference of a circle to its diameter

Gallons of water purged/gallons in 1 well casing volume = well casing volumes removed.

After purging, each well is allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples." Water samples are collected with a new, disposable Teflon® or polypropylene bailer. The groundwater is carefully poured into selected sample containers (40-milliliter [ml] glass vials, 1,000-ml glass amber bottles, etc.), which are filled so as to produce a positive meniscus.

Depending on the required analysis, each sample container is preserved with hydrochloric acid, nitric acid, etc., or it is preservative free. The type of preservative used for each sample is specified on the Chain-of-Custody form.

Each vial and glass amber bottle is sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace, which would allow volatilization to occur. The samples are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain-of-Custody record, to a California state-certified laboratory.

ATTACHMENT B

**LABORATORY ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY RECORDS**



Report Number : 48796

Date : 3/14/2006

Glenn Matteucci
Environmental Resolutions, Inc
601 North McDowell Boulevard
Petaluma, CA 94954-2312

Subject : 9 Water Samples
Project Name : Redwood 114/Santa Rosa
Project Number : 261913

Dear Mr. Matteucci,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 48796

Date : 3/14/2006

Subject : 9 Water Samples
Project Name : Redwood 114/Santa Rosa
Project Number : 261913

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for samples MW2, MW7 and MW9.

Matrix Spike/Matrix Spike Duplicate Results associated with sample MW4 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Matrix Spike/Matrix Spike Duplicate Results associated with sample MW7 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By:

A handwritten signature in black ink that reads "Joe Kiff". The signature is written in cursive and is positioned next to a horizontal line.

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 48796

Date : 3/14/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

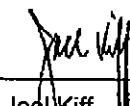
Sample : MW1

Matrix : Water

Lab Number : 48796-01

Sample Date : 3/8/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	5.6	0.50	ug/L	EPA 8260B	3/11/2006
Toluene	1.6	0.50	ug/L	EPA 8260B	3/11/2006
Ethylbenzene	2.5	0.50	ug/L	EPA 8260B	3/11/2006
Total Xylenes	1.7	0.50	ug/L	EPA 8260B	3/11/2006
Methyl-t-butyl ether (MTBE)	2.4	0.50	ug/L	EPA 8260B	3/11/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/11/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
TPH as Gasoline	200	50	ug/L	EPA 8260B	3/11/2006
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	3/11/2006
4-Bromofluorobenzene (Surr)	97.8		% Recovery	EPA 8260B	3/11/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/10/2006
Octacosane (Diesel Surrogate)	86.8		% Recovery	M EPA 8015	3/10/2006

Approved By: 
Joel Kiff

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Report Number : 48796

Date : 3/14/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Sample : MW2

Matrix : Water

Lab Number : 48796-02

Sample Date : 3/8/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	12	0.50	ug/L	EPA 8260B	3/11/2006
Toluene	0.80	0.50	ug/L	EPA 8260B	3/11/2006
Ethylbenzene	13	0.50	ug/L	EPA 8260B	3/11/2006
Total Xylenes	1.4	0.50	ug/L	EPA 8260B	3/11/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
DIsopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/11/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
TPH as Gasoline	1200	50	ug/L	EPA 8260B	3/11/2006
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	3/11/2006
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	3/11/2006
TPH as Diesel (Silica Gel)	< 300	300	ug/L	M EPA 8015	3/10/2006
Octacosane (Diesel Surrogate)	89.2		% Recovery	M EPA 8015	3/10/2006

Approved By: Joel Kiff

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Report Number : 48796

Date : 3/14/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

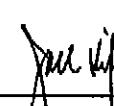
Sample : MW3

Matrix : Water

Lab Number : 48796-03

Sample Date : 3/8/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/11/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/11/2006
Toluene - d8 (Surrogate)	98.9		% Recovery	EPA 8260B	3/11/2006
4-Bromofluorobenzene (Surrogate)	94.0		% Recovery	EPA 8260B	3/11/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/10/2006
Octacosane (Diesel Surrogate)	87.0		% Recovery	M EPA 8015	3/10/2006

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Joel Kiff

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Report Number : 48796

Date : 3/14/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Sample : MW4

Matrix : Water

Lab Number : 48796-04

Sample Date : 3/8/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Methyl-t-butyl ether (MTBE)	0.60	0.50	ug/L	EPA 8260B	3/11/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/11/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
TPH as Gasoline	140	50	ug/L	EPA 8260B	3/11/2006
Toluene - d8 (Surrogate)	102		% Recovery	EPA 8260B	3/11/2006
4-Bromofluorobenzene (Surrogate)	98.4		% Recovery	EPA 8260B	3/11/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/11/2006
Octacosane (Diesel Surrogate)	87.4		% Recovery	M EPA 8015	3/11/2006

Approved By:

Joel Kiff

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Report Number : 48796

Date : 3/14/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

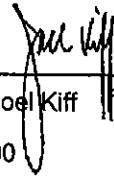
Sample : MW7

Matrix : Water

Lab Number : 48796-05

Sample Date : 3/8/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	130	0.50	ug/L	EPA 8260B	3/13/2006
Toluene	49	0.50	ug/L	EPA 8260B	3/13/2006
Ethylbenzene	240	0.50	ug/L	EPA 8260B	3/13/2006
Total Xylenes	150	0.50	ug/L	EPA 8260B	3/13/2006
Methyl-t-butyl ether (MTBE)	5.9	0.50	ug/L	EPA 8260B	3/13/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Tert-Butanol	16	5.0	ug/L	EPA 8260B	3/13/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/13/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/13/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
TPH as Gasoline	4300	50	ug/L	EPA 8260B	3/13/2006
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	3/13/2006
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	3/13/2006
TPH as Diesel (Silica Gel)	< 400	400	ug/L	M EPA 8015	3/11/2006
Octacosane (Diesel Surrogate)	87.2		% Recovery	M EPA 8015	3/11/2006

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Report Number : 48796

Date : 3/14/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Sample : MW8

Matrix : Water

Lab Number : 48796-06

Sample Date : 3/8/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/11/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/11/2006
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	3/11/2006
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	3/11/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/10/2006
Octacosane (Diesel Surrogate)	83.4		% Recovery	M EPA 8015	3/10/2006

Approved By: Joel Kiff



Report Number : 48796

Date : 3/14/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Sample : MW9

Matrix : Water

Lab Number : 48796-07

Sample Date : 3/8/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	13	0.50	ug/L	EPA 8260B	3/11/2006
Toluene	26	0.50	ug/L	EPA 8260B	3/11/2006
Ethylbenzene	110	0.50	ug/L	EPA 8260B	3/11/2006
Total Xylenes	170	0.50	ug/L	EPA 8260B	3/11/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/11/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
TPH as Gasoline	3300	50	ug/L	EPA 8260B	3/11/2006
Toluene - d8 (Surrogate)	98.8		% Recovery	EPA 8260B	3/11/2006
4-Bromofluorobenzene (Surrogate)	98.2		% Recovery	EPA 8260B	3/11/2006
TPH as Diesel (Silica Gel)	< 600	600	ug/L	M EPA 8015	3/10/2006
Octacosane (Diesel Surrogate)	85.6		% Recovery	M EPA 8015	3/10/2006

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Project Name : Redwood 114/Santa Rosa

Project Number : 261913

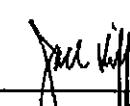
Sample : MW10

Matrix : Water

Lab Number : 48796-08

Sample Date : 3/8/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Dilisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/11/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/11/2006
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	3/11/2006
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	3/11/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/10/2006
Octacosane (Diesel Surrogate)	86.8		% Recovery	M EPA 8015	3/10/2006

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Report Number : 48796

Date : 3/14/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Sample : MW11

Matrix : Water

Lab Number : 48796-09

Sample Date : 3/8/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/11/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/11/2006
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	3/11/2006
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	3/11/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/11/2006
Octacosane (Diesel Surrogate)	84.0		% Recovery	M EPA 8015	3/11/2006

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Report Number : 48796

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QC Report : Method Blank Data**Project Name : Redwood 114/Santa Rosa****Project Number : 261913**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/10/2006
Octacosane (Diesel Surrogate)	88.0		%	M EPA 8015	3/10/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/13/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/13/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/13/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/13/2006
Toluene - d8 (Sur)	103		%	EPA 8260B	3/13/2006
4-Bromofluorobenzene (Sur)	99.3		%	EPA 8260B	3/13/2006

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/10/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/10/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/10/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/10/2006
Toluene - d8 (Sur)	100		%	EPA 8260B	3/10/2006
4-Bromofluorobenzene (Sur)	96.9		%	EPA 8260B	3/10/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/11/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/11/2006
Toluene - d8 (Sur)	102		%	EPA 8260B	3/11/2006
4-Bromofluorobenzene (Sur)	98.8		%	EPA 8260B	3/11/2006

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Approved By:  Joel Kiff

Report Number : 48796

Date : 3/14/2006

QC Report : Method Blank Data

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/10/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/10/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/10/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/10/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/10/2006
Toluene - d8 (Sur)	97.5	%		EPA 8260B	3/10/2006
4-Bromofluorobenzene (Sur)	91.4	%		EPA 8260B	3/10/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed



Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	958	898	ug/L	M EPA 8015	3/10/06	95.8	89.8	6.40	70-130	25
Benzene	48804-05	<0.50	40.0	40.0	44.1	43.2	ug/L	EPA 8260B	3/10/06	110	108	2.08	70-130	25
Toluene	48804-05	<0.50	40.0	40.0	44.5	43.9	ug/L	EPA 8260B	3/10/06	111	110	1.28	70-130	25
Tert-Butanol	48804-05	<5.0	200	200	209	208	ug/L	EPA 8260B	3/10/06	104	104	0.333	70-130	25
Methyl-t-Butyl Ether	48804-05	19	40.0	40.0	60.8	59.5	ug/L	EPA 8260B	3/10/06	106	102	3.22	70-130	25
Benzene	48848-02	<0.50	40.0	40.0	43.6	42.0	ug/L	EPA 8260B	3/11/06	109	105	3.80	70-130	25
Toluene	48848-02	<0.50	40.0	40.0	44.9	43.0	ug/L	EPA 8260B	3/11/06	112	107	4.40	70-130	25
Tert-Butanol	48848-02	<5.0	200	200	196	202	ug/L	EPA 8260B	3/11/06	97.8	101	3.02	70-130	25
Methyl-t-Butyl Ether	48848-02	<0.50	40.0	40.0	42.2	42.0	ug/L	EPA 8260B	3/11/06	106	105	0.555	70-130	25
Benzene	48832-04	<0.50	40.0	40.0	37.6	36.3	ug/L	EPA 8260B	3/10/06	94.1	90.8	3.63	70-130	25
Toluene	48832-04	<0.50	40.0	40.0	38.0	36.9	ug/L	EPA 8260B	3/10/06	94.9	92.2	2.85	70-130	25
Tert-Butanol	48832-04	<5.0	200	200	188	188	ug/L	EPA 8260B	3/10/06	94.1	94.2	0.0397	70-130	25
Methyl-t-Butyl Ether	48832-04	<0.50	40.0	40.0	42.6	42.2	ug/L	EPA 8260B	3/10/06	107	105	1.14	70-130	25
Benzene	48847-02	<0.50	40.0	40.0	40.8	37.0	ug/L	EPA 8260B	3/11/06	102	92.6	9.56	70-130	25
Toluene	48847-02	<0.50	40.0	40.0	42.7	39.9	ug/L	EPA 8260B	3/11/06	107	99.8	6.76	70-130	25
Tert-Butanol	48847-02	<5.0	200	200	211	192	ug/L	EPA 8260B	3/11/06	106	96.1	9.54	70-130	25
Methyl-t-Butyl Ether	48847-02	130	40.0	40.0	173	161	ug/L	EPA 8260B	3/11/06	106	76.5	32.8	70-130	25

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 48796

Date : 3/14/2006

QC Report : Laboratory Control Sample (LCS)

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/10/06	111	70-130
Toluene	40.0	ug/L	EPA 8260B	3/10/06	112	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/10/06	106	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/10/06	107	70-130
Benzene	40.0	ug/L	EPA 8260B	3/11/06	105	70-130
Toluene	40.0	ug/L	EPA 8260B	3/11/06	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/11/06	99.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/11/06	96.3	70-130
Benzene	40.0	ug/L	EPA 8260B	3/10/06	95.3	70-130
Toluene	40.0	ug/L	EPA 8260B	3/10/06	95.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/10/06	92.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/10/06	105	70-130
Benzene	40.0	ug/L	EPA 8260B	3/11/06	96.8	70-130
Toluene	40.0	ug/L	EPA 8260B	3/11/06	107	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/11/06	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/11/06	105	70-130
Benzene	40.0	ug/L	EPA 8260B	3/13/06	97.3	70-130

KIFF ANALYTICAL, LLC

Approved By:

Joel Kiff

Report Number : 48796

Date : 3/14/2006

QC Report : Laboratory Control Sample (LCS)

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	3/13/06	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/13/06	107	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/13/06	106	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joel Kiff

KIFF

ANALYTICAL LLC

2795 2nd Street Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. 48796

Page 1 of 1

Project Contact (Hardcopy or PDF To):		California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Chain-of-Custody Record and Analysis Request												
Company / Address:		Analysis Request										TAT				
601 N. McDowell Blvd., Petaluma, CA 94954		Recommended but not mandatory to complete this section:										12hr <input type="radio"/>				
Phone No.:	Fax No.:	Sampling Company Log Code:										24hr <input type="radio"/>				
707.766.2000	707.789.0414	Global ID:										48hr <input type="radio"/>				
Project Number:	P.O. No.:	EDF Deliverable To (Email Address):										72hr <input type="radio"/>				
281913	NA	gmatteucci@er1-us.com; milnate@er1-us.com										For Lab Use Only				
Project Name: Redwood 114/Santa Rosa		Sampler <u>J. Orndorff</u> Signature <u>J. Orndorff</u>										1wk <input type="radio"/>				
Project Address: 1855 Guerneville Rd., Santa Rosa, CA		Sampling	Container	Preservative	Matrix											2wk <input type="radio"/>
						BTEX (8021B)										1wk <input type="radio"/>
						BTEX/TPH Gas/MTBE (8021B/M8015)										0
						TPH as Diesel (M8015)										0
						TPH as Motor Oil (M8015)										0
						TPH Gas/BTEX/MTBE (8260B)										0
						5 Oxygenates/TPH Gas (8260B)										0
						7 Oxygenates/TPH Gas (8260B)										0
						5 Oxygenates (8260B)										0
						7 Oxygenates (8260B)										0
						Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)										0
						EPA 8260B (Full List)										0
						Volatile Halocarbons (EPA 8260B)										0
						Lead (7421/239.2) TOTAL <input type="checkbox"/> W.E.T. <input type="checkbox"/>										0
						TPHg/BTEX (8260B)										0
						Title 22 Metals (6000 series)										0
						Silica Gel Cleanup										0
						Coolant present: <input checked="" type="checkbox"/> No										0
Relinquished by: <u>D. M. Orndorff</u>		Date <u>03/06/06</u>	Time <u>12:30</u>	Received by: <u>J. Orndorff</u>	Remarks: Sample Receipt Temp <u>52.6</u> Therm. <u>IR-1</u> Initial <u>BLW</u> Date <u>03/09/06</u> Time <u>1722</u>										Bill to: Kiff Analytical	
Relinquished by:		Date <u>03/06/06</u>	Time <u>12:45</u>	Received by:											Redwood Oil	



Report Number : 48968

Date : 3/24/2006

Glenn Matteucci
Environmental Resolutions, Inc
601 North McDowell Boulevard
Petaluma, CA 94954-2312

Subject : 1 Water Sample
Project Name : Redwood 114/Santa Rosa
Project Number : 261913

Dear Mr. Matteucci,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 48968

Date : 3/24/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Sample : 1815 INF

Matrix : Water

Lab Number : 48968-01

Sample Date : 3/17/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/20/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/20/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/20/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/20/2006
Toluene - d8 (Surrogate)	100		% Recovery	EPA 8260B	3/20/2006
4-Bromofluorobenzene (Surrogate)	97.7		% Recovery	EPA 8260B	3/20/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/24/2006
Octacosane (Diesel Surrogate)	76.8		% Recovery	M EPA 8015	3/24/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 48968

Date : 3/24/2006

QC Report : Method Blank Data**Project Name : Redwood 114/Santa Rosa****Project Number : 261913**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/22/2006
Octacosane (Diesel Surrogate)	94.0		%	M EPA 8015	3/22/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/20/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/20/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/20/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/20/2006
Toluene - dB (Sur)	99.5		%	EPA 8260B	3/20/2006
4-Bromofluorobenzene (Sur)	97.3		%	EPA 8260B	3/20/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	48973-05	0.73	40.0	40.0	44.0	43.9	ug/L	EPA 8260B	3/20/06	108	108	0.358	70-130	25
Toluene	48973-05	<0.50	40.0	40.0	43.5	43.4	ug/L	EPA 8260B	3/20/06	109	108	0.408	70-130	25
Tert-Butanol	48973-05	<5.0	200	200	202	202	ug/L	EPA 8260B	3/20/06	101	101	0.0684	70-130	25
Methyl-t-Butyl Ether	48973-05	<0.50	40.0	40.0	41.5	41.8	ug/L	EPA 8260B	3/20/06	104	104	0.693	70-130	25
TPH as Diesel	Blank	<50	1000	1000	798	788	ug/L	M EPA 8015	3/22/06	79.8	78.8	1.24	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joe Kiff



Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/20/06	110	70-130
Toluene	40.0	ug/L	EPA 8260B	3/20/06	109	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/20/06	97.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/20/06	103	70-130

KIFF ANALYTICAL, LLC

Approved By:

Joe Kiff

KIFF
ANALYTICAL LLC

2795 2nd Street Suite 300
Davis, CA 95516
Lab: 530.297.4500
Fax: 530.297.4503

Lab No. 48968

Page 1 of 1

Project Contact (Hardcopy or PDF To):

Glenn L. Mattuccci

Company / Address:

601 N. McDowell Blvd., Petaluma, CA 94954

Phone No.: 707-788-2000

Fax No.: 707-788-0414

Project Number: 261913

P.O. No.: NA

Project Name: Redwood 114/Santa Rosa

Sampler Signature: 

Project Address: 1855 Guerneville Rd., Santa Rosa, CA

Sampling

Container

Preservative

Matrix

Analysis Request

TAT

Recommended but not mandatory to complete this section:

Sampling Company Log Code: NA

Global ID: T0609700801

EDF Deliverable To (Email Address): gmatuccci@erl-up.com; minale@erl-us.com

Sample

Designation

Date

Time

40 ml VOA

SLEEVE

POLY

AMBER

HCl

HNO₃

ICE

NONE

WATER

SOIL

BTEX (8021B)

BTEX/TPH Gas/MTBE (8021B/M8015)

X TPH as Diesel (M8015)

TPH as Motor Oil (M8015)

TPH Gas/BTEX/MTBE (8260B)

5 Oxygenates/TPH Gas (8260B)

7 Oxygenates/TPH Gas (8260B)

5 Oxygenates (8260B)

7 Oxygenates (8260B)

Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)

EPA 8260B (Full List)

Volatile Halocarbons (EPA 8260B)

Lead (7421/239.2) TOTAL W.E.T.

TPHg/BTEX (8260B)

HOLD

2wk

1wk

48hr

72hr

24hr

12hr

0

1

01

02

03

For Lab Use Only

Remarks: Initials: R.L.M. Date 03/17/06 Time 1600 Coolant present: Yes No 03

Received by: Silica Gel Cleanup

Date 03/17/06 Time 1017 Received by Laboratory: Redwood Oil

Released by:

Date 03/17/06 Time 1017 Released by: Kiff Analytical



Report Number : 48797

Date : 3/22/2006

Glenn Matteucci
Environmental Resolutions, Inc
601 North McDowell Boulevard
Petaluma, CA 94954-2312

Subject : 3 Water Samples
Project Name : Redwood 114/Santa Rosa
Project Number : 261913

Dear Mr. Matteucci,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff". The signature is written in a cursive style with a large, flowing "J" and "o".

Joel Kiff



Report Number : 48797

Date : 3/22/2006

Project Name : Redwood 114/Santa Rosa
Project Number : 261913

Sample : 2050 INF

Sample Date : 3/8/2006

Matrix : Water

Lab Number : 48797-01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Methyl-t-butyl ether (MTBE)	2.4	0.50	ug/L	EPA 8260B	3/11/2006
DiIsopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/11/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/11/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/11/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/11/2006
Toluene - d8 (Surrogate)	101		% Recovery	EPA 8260B	3/11/2006
4-Bromofluorobenzene (Surrogate)	98.6		% Recovery	EPA 8260B	3/11/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/11/2006
Octacosane (Diesel Surrogate)	82.6		% Recovery	M EPA 8015	3/11/2006

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 48797

Date : 3/22/2006

Project Name : Redwood 114/Santa Rosa
Project Number : 261913

Sample : 2050 INT

Sample Date : 3/8/2006

Matrix : Water

Lab Number : 48797-02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/22/2006
Toluene - d8 (Surrogate)	101		% Recovery	EPA 8260B	3/22/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 48797

Date : 3/22/2006

Project Name : Redwood 114/Santa Rosa
Project Number : 261913

Sample : 2050 EFF

Sample Date : 3/8/2006

Matrix : Water

Lab Number : 48797-03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/20/2006
Toluene - d8 (Surrogate)	104		% Recovery	EPA 8260B	3/20/2006

Approved By:

Joe Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 48797

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 3/22/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	958	898	ug/L	M EPA 8015	3/10/06	95.8	89.8	6.40	70-130	25
Tert-Butanol	49039-02	38	200	200	243	235	ug/L	EPA 8260B	3/21/06	102	98.5	4.04	70-130	25
Methyl-t-Butyl Ether	49039-02	77	40.0	40.0	120	123	ug/L	EPA 8260B	3/21/06	106	114	6.55	70-130	25
Tert-Butanol	48996-08	<5.0	200	200	208	205	ug/L	EPA 8260B	3/20/06	104	102	1.61	70-130	25
Methyl-t-Butyl Ether	48996-08	<0.50	40.0	40.0	43.5	41.7	ug/L	EPA 8260B	3/20/06	109	104	4.31	70-130	25
Benzene	48848-02	<0.50	40.0	40.0	43.6	42.0	ug/L	EPA 8260B	3/11/06	109	105	3.80	70-130	25
Toluene	48848-02	<0.50	40.0	40.0	44.9	43.0	ug/L	EPA 8260B	3/11/06	112	107	4.40	70-130	25
Tert-Butanol	48848-02	<5.0	200	200	196	202	ug/L	EPA 8260B	3/11/06	97.8	101	3.02	70-130	25
Methyl-t-Butyl Ether	48848-02	<0.50	40.0	40.0	42.2	42.0	ug/L	EPA 8260B	3/11/06	106	105	0.555	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joel Kiff

Report Number : 48797

Date : 3/22/2006

QC Report : Laboratory Control Sample (LCS)

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Tert-Butanol	200	ug/L	EPA 8260B	3/21/06	97.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/21/06	105	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/20/06	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/20/06	104	70-130
Benzene	40.0	ug/L	EPA 8260B	3/11/06	105	70-130
Toluene	40.0	ug/L	EPA 8260B	3/11/06	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/11/06	99.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/11/06	96.3	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joel Kiff



2785 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 48797

Page 1 of 1

Project Contact (Hardcopy or PDF To): Glenn L. Matteucci		California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Chain-of-Custody Record and Analysis Request																								
Company / Address: 601 N. McDowell Blvd., Petaluma, CA 94954		Recommended but not mandatory to complete this section: Sampling Company Log Code: NA																										
Phone No.: 707-766-2000	Fax No.: 707-789-0414	Global ID: T0809700601																										
Project Number: 261913	P.O. No.: NA	EDF Deliverable To (Email Address): gmatteucci@erl-us.com; mlmihale@erl-us.com																										
Project Name: Redwood 114/Santa Rosa		Sampler: Signature: <u>Dan D. Jau</u>																										
Project Address: 1855 Guerneville Rd., Santa Rosa, CA		Sampling		Container		Preservative		Matrix		Analysis Request																		
Sample Designation		Date	Time	40 ml VOA SLEEVE	POLY AMBER	HCl	HNO ₃	ICE	NONE	WATER	SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021BM/8015)	TPH as Diesel (M8016)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8280B)	6 Oxygenates/TPH Gas (8280B)	7 Oxygenates/TPH Gas (8280B)	6 Oxygenates (8280B)	7 Oxygenates (8280B)	Volatile Halocarbons (EPA 8260B)	Lead Scan (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Lead (7421/239.2) TOTAL W.E.T.	TPH/g/BTEX (8280B)	HOLD	TAT	
2050 INF		<u>3-8-06</u>	<u>1325</u>	5		X	X		X			X	X	X	X	X	X	X	X	X	X	X	X	X	<input type="checkbox"/>	12hr	<input type="checkbox"/>	12hr
2050 INT			<u>1320</u>	5		X	X		X																<input type="checkbox"/>	24hr	<input type="checkbox"/>	24hr
2050 EFF			<u>1310</u>	5		X	X		X																<input type="checkbox"/>	48hr	<input type="checkbox"/>	48hr
																									<input type="checkbox"/>	72hr	<input type="checkbox"/>	72hr
																									<input type="checkbox"/>	1wk	<input type="checkbox"/>	1wk
																									<input type="checkbox"/>	2wk	<input type="checkbox"/>	2wk
Relinquished by: <u>Dan D. Jau</u>		Date	Time	Received by:												Remarks: Sample Receipt Temp °C <u>26</u> Therm. ID# <u>12-1</u> Initial <u>RJL</u> Date <u>03-09-06</u> Time <u>1720</u> Silica Gel Cleanup <u>Yes</u> / <u>No</u> Coolant present: <u>Yes</u> / <u>No</u>												
Relinquished by:		Date	Time	Received by:																								
Relinquished by:		Date	Time	Received by Laboratory: <u>Kiff</u> <u>Redwood Analytical</u>												Bill to: Redwood Oil												



Report Number : 48798

Date : 3/14/2006

Glenn Matteucci
Environmental Resolutions, Inc
601 North McDowell Boulevard
Petaluma, CA 94954-2312

Subject : 1 Water Sample
Project Name : Redwood 114/Santa Rosa
Project Number : 261913

Dear Mr. Matteucci,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 48798
Date : 3/14/2006

Subject : 1 Water Sample
Project Name : Redwood 114/Santa Rosa
Project Number : 261913

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample 2075 INF for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By:

Joe Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 48798

Date : 3/14/2006

Project Name : Redwood 114/Santa Rosa
Project Number : 261913

Sample : 2075 INF

Matrix : Water

Lab Number : 48798-01

Sample Date : 3/8/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/13/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/13/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/13/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/13/2006
Toluene - d8 (Surrogate)	105		% Recovery	EPA 8260B	3/13/2006
4-Bromofluorobenzene (Surrogate)	96.8		% Recovery	EPA 8260B	3/13/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/13/2006
Octacosane (Diesel Surrogate)	83.2		% Recovery	M EPA 8015	3/13/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 48798

Date : 3/14/2006

QC Report : Method Blank Data

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/13/2006
Octacosane (Diesel Surrogate)	76.2		%	M EPA 8015	3/13/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Diisopropyl ether (DIPÉ)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/13/2006
Methanol	< 50	50	ug/L	EPA 8260B	3/13/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	3/13/2006
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/13/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/13/2006
Toluene - d8 (Sur)	103		%	EPA 8260B	3/13/2006
4-Bromofluorobenzene (Sur)	99.3		%	EPA 8260B	3/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 48798

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 3/14/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	769	786	ug/L	M EPA 8015	3/13/06	76.9	78.6	2.20	70-130	25
Benzene	48807-09	4.2	40.0	40.0	38.8	37.8	ug/L	EPA 8260B	3/13/06	86.5	84.2	2.68	70-130	25
Toluene	48807-09	<0.50	40.0	40.0	37.2	37.0	ug/L	EPA 8260B	3/13/06	93.0	92.4	0.644	70-130	25
Tert-Butanol	48807-09	13	200	200	192	200	ug/L	EPA 8260B	3/13/06	89.2	93.4	4.54	70-130	25
Methyl-t-Butyl Ether	48807-09	900	40.0	40.0	933	918	ug/L	EPA 8260B	3/13/06	83.4	44.8	60.1	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joe Kiff

Report Number : 48798

QC Report : Laboratory Control Sample (LCS)

Date : 3/14/2006

Project Name : Redwood 114/Santa Rosa

Project Number : 261913

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/13/06	97.3	70-130
Toluene	40.0	ug/L	EPA 8260B	3/13/06	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/13/06	107	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/13/06	106	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff



2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4803

Lab No. 46798

Page 1 of 1

Project Contact (Hardcopy or PDF To): Glenn L. Matteucci		California EDF Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Chain-of-Custody Record and Analysis Request																	
Company / Address: 601 N. McDowell Blvd., Petaluma, CA 94954		Recommended but not mandatory to complete this section: Sampling Company Log Code: NA																			
Phone No.: 707-766-2000	Fax No.: 707-789-0414	Global ID: T0609700601																			
Project Number: 261913	P.O. No.: NA	EDF Deliverable To (Email Address): omatteucci@eri-us.com; mlinala@eri-us.com																			
Project Name: Redwood 114/Santa Rosa	Sampler Signature:																				
Project Address: 1855 Guerneville Rd., Santa Rosa, CA	Sampling	Container	Preservative	Matrix																	
Sample Designation	Date	Time	40 ml VOA SLEEVE	POLY AMBER	HCl HNO ₃ ICE NONE	WATER SOIL	BTEX (8221B)	BTEX/TPH Gas/MTBE (8021BA/8016)	TPH & Diesel (M8016)	TPH & Motor Oil (M8016)	TPH Gas/BTEX/MTBE (8226B)	6 Oxygenates/TPH Gas (8280B)	7 Oxygenates (8280B)	8 Oxygenates (8280B)	Lead Spav. (1,2-DCA & 1,2-EDB - 8280B)	EPA 8280B (Full List)	Volatile Halocarbons (EPA 8280B)	Lead (7421/739.2) TOTAL W.E.T.	TPHg/BTEX (8260B)	HOLD	TAT
2075 INF	3/8/06	1405	5	X	X	X		X		X			X	X			X	1 wk	12hr		
2075 INT		1355	5	X	X	X											X	1 wk	24hr		
2075 EFF		1350	5	X	X	X											X	1 wk	48hr		
																			72hr		
																			1wk		
																			2wk		
Relinquished by: 		Date	Time	Received by:				Remarks: <u>Sample received</u> Temp °C <u>28</u> Therm. ID# <u>JR-1</u> Initial <u>KLM</u> Date <u>030906</u> Time <u>1720</u> Coolant present: <u>Yes</u> No													
Relinquished by:		Date	Time	Received by:																	
Relinquished by:		Date	Time	Received by Laboratory: <u>KIFF</u> <u>Ron McSweeney Analytical</u>				Silica Gel Cleanup Bill to: Redwood Oil													

ATTACHMENT C

**ELECTRONIC CORRESPONDENCE,
CITY OF SANTA ROSA UTILITIES DEPARTMENT**

Chris S. Brown

From: Chris S. Brown
Sent: Tuesday, March 07, 2006 11:09 AM
To: 'Seaman, Donna'
Subject: RE: 1855 Guerneville Road

Great. Thanks. I'll let you know before we start up.

Christopher Brown
Senior Staff Engineer
Environmental Resolutions, Inc.
ph: (707) 766-2029
cell: (707) 338-6993
fax: (707) 789-0414
cbrown@eri-us.com

From: Seaman, Donna [mailto:DSeaman@ci.santa-rosa.ca.us]
Sent: Tuesday, March 07, 2006 11:08 AM
To: Chris S. Brown
Subject: RE: 1855 Guerneville Road

That would be fine. Let me know when the system starts up.

From: Chris S. Brown [mailto:cbrown@ERI-US.com]
Sent: Monday, March 06, 2006 5:10 PM
To: Seaman, Donna
Cc: Glenn M. Matteucci; David Daniels
Subject: 1855 Guerneville Road

Hi Donna,
ERI is scheduled to perform Quarterly groundwater monitoring and sampling at the site on Guerneville Road on Wednesday, March 8, 2006. It is my understanding that you have given us approval to treat and discharge the purge water from these events in the past without taking system effluent samples (which is a requirement of the permit). We typically take totalizer readings before and after the event and report them to you. Please let me know whether this would be acceptable to you, or if you would like effluent samples to be collected. We are not operating the system at this time, but are planning to retrofit it and start it this quarter. Thanks.

Christopher Brown
Senior Staff Engineer
Environmental Resolutions, Inc.
ph: (707) 766-2029
cell: (707) 338-6993
fax: (707) 789-0414
cbrown@eri-us.com

Chris S. Brown

From: Chris S. Brown
Sent: Thursday, March 09, 2006 7:46 AM
To: 'Seaman, Donna'
Cc: Glenn M. Matteucci
Subject: FW: Totalizer Readings from 2619 in Santa Rosa

Hi Donna,
below are the totalizer readings from yesterday's QM event at 1455 Guerneville Road.

--
Christopher Brown
Senior Staff Engineer
Environmental Resolutions, Inc.
ph: (707) 766-2029
cell: (707) 338-6993
fax: (707) 789-0414
cbrown@eri-us.com

From: David Daniels
Sent: Thursday, March 09, 2006 7:39 AM
To: Chris S. Brown
Subject: Totalizer Readings from 2619 in Santa Rosa

Here are the totalizer readings from 1855 Guerneville Rd

Before 1742305.1
After 1742702.9

David